

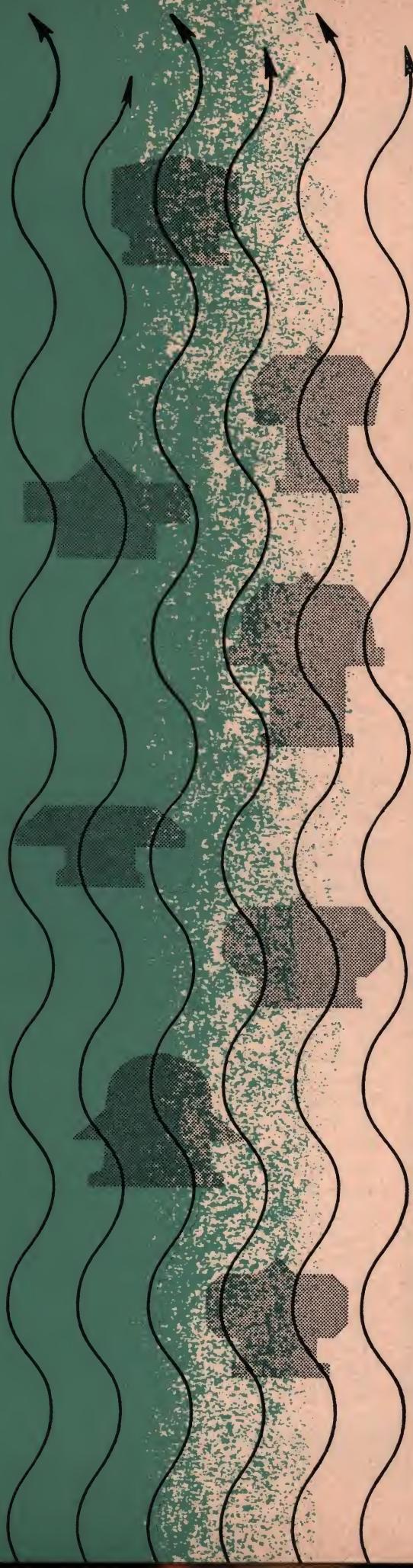
20c  
Hi



# roof ventilators

for every "thru-the roof"  
ventilating problem

Hirschman-Pohle Co., Inc.  
over fifty years of service



A. I. A. File No. 30-D-1 1959

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## a ventilator for every purpose . . .

Hirschman-Pohle Co., Inc.—successor to the W.F. Hirschman Company founded in 1908—offers a complete line of through-the-roof ventilators of unusually high-quality, a type for every requirement. Over fifty years of research, development and experience enable us to produce carefully designed and built through-the-roof ventilators; we are charter members of the AIR MOVING & CONDITIONING ASSOCIATION and have always co-operated with architects, engineers and other ventilator manufacturers to improve quality and performance. It is our aim to make every installation of H-P roof ventilators a source of continuous trouble-free satisfaction to the owners, and a credit to the architects or engineers who have specified them.

Most of the standard designs shown in this catalog are subject to modification to meet unusual conditions or specifications, and based on our wide experience, we are happy to offer suggestions for such modification at any time.

### capacities

All ratings are at the inlet to the ventilator itself based on standard or recommended roof openings, and are without dampers, the use of which will affect the exhaust capacities only slightly. As we manufacture complete ventilators only, each rating is for the complete unit as it will be used in actual service, and is positively not for the fan alone. Because we manufacture nothing but roof ventilators of the several types, each of our types of fans are designed for use in each particular type of ventilator to secure the highest efficiency, and are not fans originally designed for some other type of use merely added to a roof ventilator.

Capacities for the several types of gravity ventilators under different conditions of wind velocity, temperature difference, and stack effect are based on tests run at several different commercial technical laboratories from time to time.

The capacities shown in this catalogue for the STATIC Power ventilator are for the Type "LAC" (which includes the integral damper housing) and are based on tests run at an AMCA approved neutral laboratory with the results as shown approved by AMCA and authorized by them to carry the CERTIFIED RATING label. Capacities for the Type "LC" STATIC Power ventilator (without the damper housing) have also been formally approved by AMCA and also carry the CERTIFIED RATING label. Especially in the larger sizes they have only slightly higher ratings than those shown for the Type "LAC." This capacity table (as are all others) is necessarily condensed, with intermediate capacities available for belt driven units merely by a change in the fan speed. The capacities shown for the several types of propeller fan ventilators are based on a great many tests run in our own laboratory from time to time, and as this catalogue goes to press are in process of being re-rated in our own recently completed AMCA approved laboratory, with ap-

proved use of the Certified Rating label anticipated, at possibly higher capacities.

### design

Power ventilators are designed to exhaust around their entire periphery with an outlet area to secure the highest possible efficiency for the type of fan used and the service to be performed.

Gravity ventilators are designed to make the most of natural forces such as wind velocity, temperature difference, and stack effect.

All ventilators are designed and built to resist very high wind velocities, to resist back pressure, to be absolutely weather-proof and to present a pleasing appearance without sacrificing efficiency.

### materials

Galvanized steel, copper, and aluminum are the most commonly used materials for any of our types of roof ventilators, but they may be furnished of other special metals as specified. All standard gauges of whatever material specified are correct for the particular type of service, as are all supporting braces or angles, using rivets, welds or bolts as may be required for longest life at any particular point. Motors used vary somewhat with the type of ventilator, but all are as manufactured by the leaders in their field. As this is written all motors of the latest designs are using pre-greased ball-bearings, the recommendations varying somewhat with the manufacturer with most sizes and types requiring no re-greasing for at least ten years of normal service. Fans of either type are of our own manufacture and are carefully balanced both statically and dynamically.

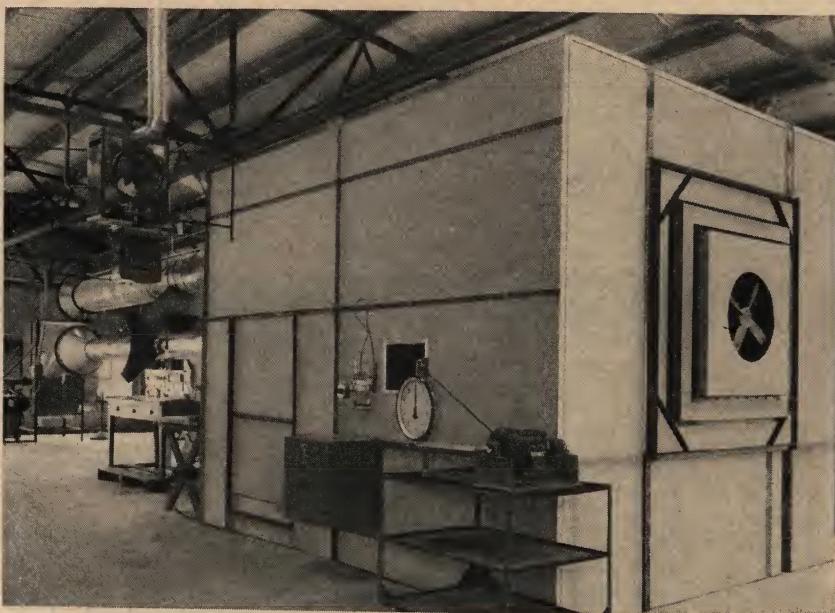
### sound levels

Much is being said and written about rating sound levels of the various types of fans or roof ventilators in decibels (sones, phons, etc.) with several different systems or networks apparently available for only reasonably accurate or industry-wide use. In the present state of the art, and until more definite and concrete recommendations are made by one or more of the national associations now having such matters under consideration, we prefer not to show what might prove to be inaccurate sound level ratings. On the whole, and until this question is settled, we believe that where quiet operation is required, the lowest possible tip speeds should be selected.

### specifications

The specifications on the following pages are intended to help the architect or engineer write a complete description of the ventilator required for a particular application. Each specification contains the type name and lists the variables available from which to choose the appropriate ones. Many specification writers may wish to give some of this information in a schedule.

## the new Hirschman-Pohle Laboratory

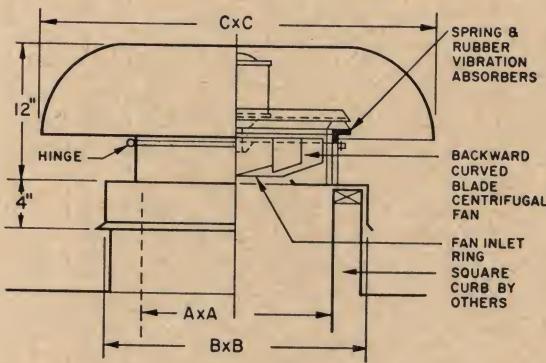


interior view of our test laboratory

Approved by the Air Moving and Conditioning Association with chamber as required for published ratings at free delivery. This modern well-equipped laboratory is a recent addition to our plant to enable us to serve our customers better. The fan shown in the chamber is a PFMA test unit.

### new low profile electric ventilator type "CK"

lower than ever—12" maximum height



#### standard dimensions

size #	A	B	C	net weight
9	12"	21"	26"	38 lb.
10	12	21	26	38
11	14	23	31	48
13	16	25	36	62

NOTE: Net weight will vary slightly with motor speed.

For low capacities in small sizes, where it is desired to use a backward curved blade centrifugal fan, with a minimum of overall height, we offer the Type "CK" Low Profile Electric ventilator shown here, all sizes with fans direct connected. The cowl construction is similar to that used with several of our other ventilators where the low height is of prime importance, and includes the hinged cowl for easy access. This unit can be furnished with or without our Insulated double shell steel curb, shown elsewhere in this catalogue, or in cases where a curb may not be considered necessary, it can be furnished with flat flanges for mounting on flat or pitched roof. The fan and motor assembly is mounted on the same heavy duty spring and rubber vibration absorbers used in our STATICK Power ventilators which completely eliminate any possible transmission of vibration or motor hum. For the standard model, the totally enclosed, sealed ball bearing, continuous fan duty motor is permitted to be cooled by the exhausted air, and a protective shield is furnished only when specified because of moisture or fume-laden air.

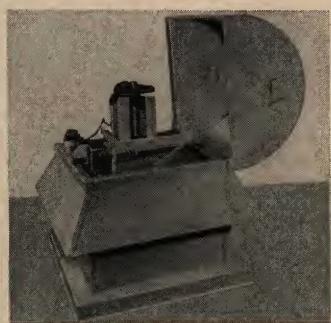
Dampers of any type can be furnished either for mounting in the curb below the ventilator without adding to the height, or as an integral part of the ventilator if a few inches added to the overall height would not be objectionable. This unit is available in painted galvanized steel, aluminum, copper, or special metals as may be specified. The capacities shown here have not yet been certified but will be submitted for such certification as soon as provision is made for fans this small.

#### capacities

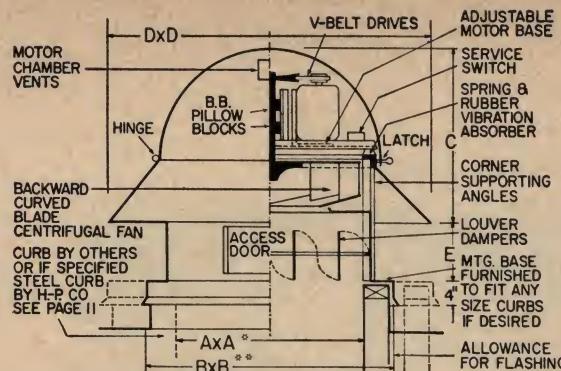
size #	HP	RPM	tip speed	0"	1/8"	1/4"	3/8"	1/2"	5/8"
9A	1/20	860	2028	320	170	—	—	—	—
B	1/20	1140	2688	430	300	170	—	—	—
C	1/20	1550	3655	580	490	390	290	—	—
D	1/20	1725	4068	640	550	470	380	290	—
10A	1/20	860	2251	443	260	—	—	—	—
B	1/20	1140	2984	585	440	300	—	—	—
C	1/20	1550	4058	796	690	580	480	370	—
D	1/20	1725	4516	877	780	690	590	500	400
11A	1/20	860	2477	548	340	—	—	—	—
B	1/20	1140	3283	730	560	400	230	—	—
C	1/20	1550	4464	990	870	750	640	520	400
D	1/6	1725	4986	1090	980	880	770	670	560
13A	1/6	860	3040	976	730	490	—	—	—
B	1/4	1140	4030	1294	1100	910	725	540	—
C	1/3	1550	5479	1759	1610	1470	1340	1200	1060

NOTE: Size number is nominal fan diameter.  
(Data on larger sizes or special construction on request.)

# STATICK power ventilators



**type  
LAC**



\* AxA in table is recommended as a minimum.

\*\* BxB in table is standard, can be varied as required to fit any size or shape of roof opening or may be equipped with flat flange for pitched roofs.

## dimensions

size	Ax A*	Bx B**	C	DxD	ga. galv.	
					cowl	dpr hsg
9	8	17	15	16	24	22
11	10	19	15	18	24	22
13	15	24	24	22	24	22
15	17	26	24	26	24	22
18	20	29	26	30	24	22
21	23	32	26	34	22	20
24	26	35	28	38	22	20
27	29	38	30	42	22	20
30	32	41	30	46	20	18
33	35	44	30	50	20	18
36	38	47	35	54	20	18
40	43	52	35	62	20	18
44	47	56	35	70	18	18
49	52	61	40	75	18	18
54	57	66	40	82	18	18
60	63	72	40	92	18	18
66	69	78	40	104	18	18

\* Weights shown are approximate due to accessories or different motor sizes.

## AMCA CERTIFIED CAPACITY TABLE

†SIZE NUM- BER	HP	FAN		C. F. M. — at static pressure							
		RPM	tip speed	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"

Direct driven (Other direct drives shown by asterisk in table below)

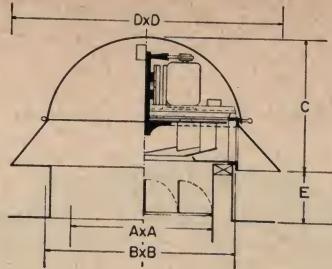
9	A	1/20	860	2028	266	140					
	B	1/20	1140	2688	344	248					
	C	1/20	1725	4068	520	450	390	330			
11	A	1/20	860	2477	450	290					
	B	1/20	1140	3283	617	490	380	255			
	C	1/20	1725	4986	907	790	730	650	580	500	430

Belt driven (Units marked with asterisk can also be furnished direct driven)

13	A	1/20	680	2405	666	440					
	B*	1/6	860	3040	843	680	460	130			
	C	1/6	940	3232	920	760	600	300			
	D	1/6	1080	3818	1058	940	750	608	350		
	E*	1/6	1140	4030	1120	980	860	680	480	250	
	F	1/4	1429	5051	1400	1300	1200	1100	980	830	665
	G*	1/2	1725	6098	1690	1610	1520	1430	1350	1250	1150
15	A	1/20	680	2670	914	675	310				
	B	1/6	730	2867	980	750	410				
	C	1/6	780	3063	1050	840	570	165			
	D*	1/6	860	3377	1150	970	750	430			
	E	1/6	910	3574	1223	1040	850	570	250		
	F*	1/4	1140	4477	1530	1390	1250	1090	890	650	
	G	1/3	1317	5172	1770	1650	1535	1425	1280	1115	885
	H*	3/4	1725	6774	2320	2280	2250	2190	2100	2000	1920
18	A	1/6	517	2436	1200	800					
	B	1/6	650	3063	1510	1210	820	260			
	C	1/6	680	3204	1580	1350	960	650			
	D	1/6	773	3643	1796	1555	1278	890	455		
	E*	1/4	860	4052	2000	1740	1550	1260	860		
	F	1/3	973	4585	2260	2060	1880	1660	1380	1030	700
	G*	3/4	1140	5372	2650	2480	2320	2150	1940	1720	1180
21	A	1/6	543	2985	2003	1590	1010				
	B	1/6	570	3134	2103	1700	1200	500			
	C	1/4	650	3574	2398	2060	1662	1100	450		
	D	1/6	680	3739	2510	2160	1820	1340	700		
	E	1/3	752	4134	2775	2500	2185	1810	1300	820	
	F*	1/2	860	4728	3184	2900	2700	2400	2080	1650	1200
	G	3/4	920	5058	3394	3120	2900	2650	2360	2000	1600
	H*	1/2	1140	6268	4200	4000	3820	3620	3420	3200	2960
24	A	1/6	460	2890	2552	2040	1250				
	B	1/6	506	3179	2807	2350	1765	880			
	C	1/4	540	3393	2996	2560	2020	1240	560		
	D	1/3	610	3833	3384	2940	2600	2080	1340	680	
	E*	1/2	680	4273	3773	3400	3100	2700	2050	1400	890
	F	3/4	780	4901	4327	4000	3720	3400	3020	2600	1950
	G*	1	860	5403	4820	4530	4250	3980	3640	3320	3000
	H*	2	1140	7163	6290	6080	5880	5700	5500	5330	5060
27	A	1/6	378	2672	2986	2270	1075				
	B	1/4	450	3181	3553	2992	2256	1120			
	C	1/2	522	3690	4125	3630	3050	2350	1340		
	D	1/2	600	4241	4741	4300	3890	3350	2620	1740	
	E*	3/4	680	4807	5430	5030	4690	4250	3770	3220	2360
	F	1	755	5337	5965	5590	5300	4950	4540	4070	3550
	G*	1/2	860	6079	6835	6510	6230	5970	5650	5280	4900
30	A	1/6	370	2906	4016	3200	1980				
	B	1/3	438	3440	4746	4100	3350	2100			
	C	1/2	503	3951	5450	4870	4290	3520	2390	1380	
	D	3/4	576	4524	6241	5730	5270	4660	4000	2940	
	E	1	634	4979	6870	6400	5970	5470	4910	4290	3280
	F*	1/2	680	5330	7368	6980	6540	6100	5500	5000	4300
	G	2	760	5969	8235	7800	7450	7100	6700	6000	5740
	H*	3	860	6754	9320	9000	8650	8320	8000	7630	7250

As alternatives to job-built curbs, ventilators can be furnished with an insulated double shell curb as described on page 11, or with flat flanges for either flat or pitched roof eliminating the need for any type of curb.

When insulated double shell steel curb is used, the roof opening should be 4" larger than the A dimension in the "LAC" table and 3" smaller than the B dimension in the "LC" table.

type  
LC

Type "LC" similar to type "LAC" but without integral damper housing. This ventilator also bears the AMCA Certified Ratings Label. Its certified capacity ratings are only slightly higher than the ratings for the Type "LAC" STATICK shown.

AMCA ratings are not available for any sizes smaller than 12" diameter; sizes #9 and #11 shown below carry the PFMA Certified Rating Seal

SIZE NUM- BER	HP	FAN		C. F. M. — at static pressure							
		RPM	tip speed	0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
<b>Belt Driven (contd.)</b>											

33	A	1/4	341	2946	4915	3960	2550				
	B	3/8	374	3231	5391	4550	3480	1850			
	C	1/2	429	3706	6184	5430	4630	3530	2080		
	D	5/8	492	4251	7092	6420	5800	4980	3930	2650	1600
	E	1	541	4674	7798	7220	6620	5950	5200	4080	2970
	F*	2	680	5890	9831	9350	8880	8450	7930	7380	6800
	G*	5	860	7429	12400	12100	11600	11250	10800	10520	10100
36	A	1/4	292	2752	5160	4000	2520				
	B	3/8	320	3016	5350	4600	3340				
	C	1/2	368	3468	6500	5600	4540	3150			
	D	5/8	420	3958	7427	6640	5780	4830	3800		
	E	1	463	4364	8192	7480	6730	5890	4990	4080	
	F	1 1/2	530	4995	9378	8800	8130	7430	6700	5950	5120
	G	2	584	5504	10322	9780	9190	8560	7910	7230	6550
40	H	3	669	6305	11822	11330	10860	10350	9800	9200	8620
	J*	5	680	6409	12025	11540	11100	10520	10100	9500	8950
	A	1/3	271	2820	6450	5040	3350				
	B	1/2	300	3120	7142	5920	4680	3200			
	C	1/2	316	3289	7522	6260	4830				
	D	5/8	357	3715	8500	7500	6330	5075	3500		
	E	1	393	4090	9357	8470	7460	6300	5100	6100	4960
44	F	1 1/2	449	4673	10690	9900	9030	8080	7090	7700	6780
	G	2	495	5151	11785	11080	10330	9500	8630	10140	8700
	H	3	566	5890	13474	12860	12200	11500	10820	10000	9230
	A	1/3	229	2638	7393	5510	3110				
	B	1/2	263	3029	8485	6920	5040				
	C	3/4	301	3467	9718	8400	6780	5100			
	D	1	332	3824	10714	9500	8110	6600	4980		
49	E	1 1/2	380	4377	12260	11230	10080	8800	7500	6120	5850
	F	2	418	4815	13490	12550	11560	10450	9250	8050	6850
	G	3	479	5518	15460	14670	13830	12930	11900	10850	9820
	H	5	568	6543	18330	17600	16950	16200	15450	14650	13850
	A	1/2	222	2833	9740	7660	5120				
	B	3/4	254	3242	11150	9400	7220	4780			
	C	1	279	3561	12260	10690	8780	6820	3000		
54	D	1 1/2	320	4084	14050	12690	11160	9450	7700		
	E	2	352	4493	15458	14200	12890	11380	9770	8220	
	F	3	403	5143	17700	16600	15500	14300	12950	11550	10140
	G	5	478	6101	20990	20050	19150	18150	17150	16000	14850
	H	7 1/2	547	6981	24000	23200	22400	21600	20800	19900	18950
	A	1/2	189	2660	11122	8320	4830				
	B	3/4	216	3040	12695	10400	7600				
54	C	1	238	3349	14000	11940	9380	6720			
	D	1 1/2	272	3827	16000	14200	12100	9930	7480		
	E	2	299	4207	17593	16000	14200	12150	10080	7700	
	F	3	343	4826	20182	18800	17300	15650	13850	12050	10200
	G	5	406	5713	23890	22700	21480	20200	18800	17350	15850
	H	7 1/2	465	6543	27362	26320	25320	24250	23080	21850	20600
	A	1	190	2960	15160	12150	8600				
60	B	1 1/2	3247	3750	15050	12100	8900				
	C	2	3739	19150	17000	14250	11500				
	D	3	4362	22350	20500	18400	16000				
	E	5	320	4986	25540	23800	22100	20150	18100	16000	13900
	F	7 1/2	370	5765	29530	28100	26600	25100	23400	21600	19800
	G	10	400	6232	31930	30700	29300	27800	26200	24700	23000
	A	1	170	2927	18300	14600	10400				
66	B	2	200	3444	21540	18550	15000	11200			
	C	3	240	4133	25840	23200	20600	17600			
	D	5	280	4822	29940	27900	25600	23200			
	E	7 1/2	320	5510	34440	32600	30600	28700			
	F	10	360	6199	38770	37100	35600	33700			

ratings for other capacities or larger sizes available on request

\*can also be furnished as direct drives  
†size number is nominal fan diameter

### dimensions

size	AxA	BxB	C	DxD	ga. galv.	wgt.*
9	8	15	15	21	24	80
11	10	17	17	23	24	100
13	12	19	17	26	24	130
15	15	22	24	30	24	160
18	18	25	26	34	22	200
21	21	28	28	38	22	250
24	24	31	30	42	20	320
27	27	34	30	46	20	400
30	30	37	30	50	20	490
33	33	40	35	54	20	600
36	38	45	35	59	18	740
40	41	50	35	67	18	900
44	45	54	40	75	18	1080
49	51	60	40	90	18	1280
54	56	65	40	100	18	1500
60	63	72	40	110	18	1750
66	69	78	40	120	18	2100

fifty years of service



### The capacity ratings for Type "LAC"

& "LC" STATICK power ventilators

manufactured by Hirschman-Pohle

Co., Inc. have been certified by the

Air Moving & Conditioning Asso-

ciation and all Type "LAC" & "LC"

STATICK power ventilators bear this

label. This signifies that these ven-

tilators have been tested in accordance

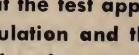
with the test code for Centrifugal

Fans (NAFM Bulletin No. 110), and that the test appa-

ratus, test procedure, methods of calculation and the

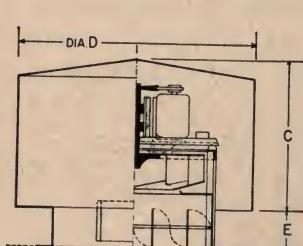
published ratings have been examined and approved

by a committee of competitive fan manufacturers.



### specifications

The roof ventilators shown on the drawings shall be type "LAC" (or "LC") STATICK Power Ventilator as manufactured by the Hirschman-Pohle Co., Inc., of LeRoy, N.Y., or approved equal, with base mountings to fit curb as shown. Fully weather-proof housings shall be of the manufacturer's standard gauge of (galvanized steel) (aluminum) (copper) (other). Fan wheels shall be of the backward curved blade non-overloading centrifugal type, with entire fan and motor assembly suspended on combination spring and rubber vibration absorbers for quiet and vibration free operation. Dampers shall be included as an integral part of the ventilators (of the self-acting type) (arranged for and including electric damper operators) (arranged for and including pneumatic damper operators) (arranged for mounting of control motor by others). Convenient means of access shall be included for servicing dampers and control motors. These ventilators shall have a capacity ..... cfm at ..... inches static pressure powered by ..... HP motor wound for ..... volts, ..... cycle, ..... phase. The fan shall be (belt driven) (direct driven) at ..... rpm with a tip speed of not over ..... fpm. Air capacities shall be certified to be in accordance with the Air Moving & Conditioning Association and bear the AMCA Certified Rating Label



Type "LA" with circular cowl as preferred by some engineers, and which includes the integral damper housing similar to the Type "LAC."

Ratings are not certified by AMCA but are approximately the same as shown in table for the Type "LAC."

## propeller fan

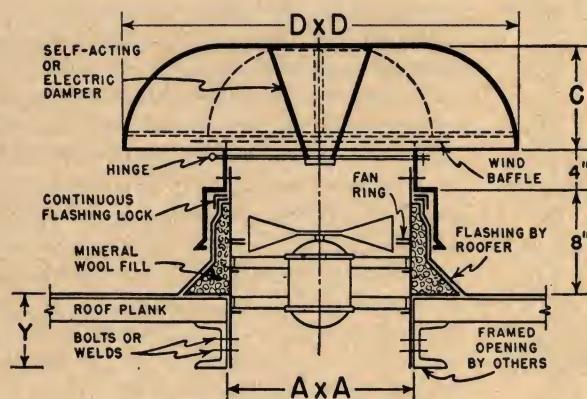
### type CAF very low profile



Small size type CAF with cowl open showing self-acting damper. The dotted line indicates the extension of the insulated double shell steel curb below the roof line.

In response to an insistent demand to reduce the over-all height of the several types of roof ventilators, especially for use on modern one story school buildings, the Hirschman Type "CAF" Electric ventilator has been developed with the motor supported inside the double shell steel curb. A similar type of construction can be furnished for built-up masonry or wood curbs, either with the motor mounted up under the cowl somewhat similar to that for the type "CK" ventilator shown elsewhere in this catalogue, or in the neck of the ventilator when it would become the LeRoy Electric ventilator as shown by photograph on opposite page.

Fan capacities are approximately the same at the lower velocities at the equivalent horsepower and speed as shown by the table for Type "F" Electric ventilator. Capacities can be varied slightly as may be desired merely by a change in the fan used.



Installation detail with type AS double shell steel curb for steel or wood framed openings. For poured roof decks the type AC curb, described on page 11 can be supplied.

### standard dimensions

roof opening	A	C	DxD	Y	galvanized steel		weight (approx.)
					cowl	base	
10"	5½"	23"	6"	24 ga.	24 ga.	80 lb.	
12	6	26	or as req'd	24	24	115	
15	7	31		22	22	140	
18	8	36		22	22	160	
20	9½	41		22	22	190	
24	11	48		22	22	275	
30	12	56		22	20	370	
36	14	66		20	18	450	
42	16	76		20	18	600	

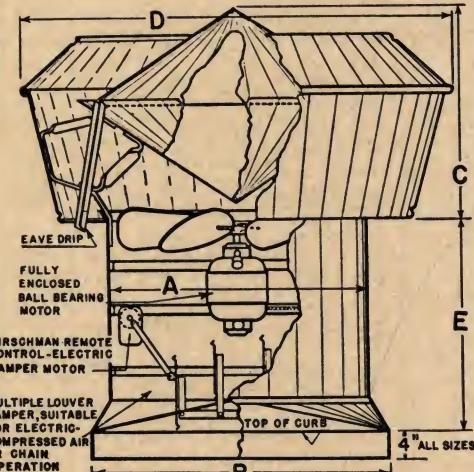
### specifications

Furnish and install where shown on the drawings, Type "CAF" Electric ventilators as manufactured by Hirschman-Pohle Co., Inc. of LeRoy, N. Y., or approved equal. The capacities shall be as shown on the drawings with motors wound for—Volts,—Cycle,—phase. The units shall be of (galvanized steel) (copper) (other), and shall include Type ("AS" or "AC") insulated double shell steel curb. Units shall include damper for (self-acting) (chain, electric or pneumatic control).

### type F vertical flow



Type F ventilator with access door removed. This particular unit has an air motor mounted on damper.



Cut away drawing showing standard construction. This particular unit is equipped with an electric motor damper control and type 12 base.

### standard dimensions

vent size A dia.	BxB	C	D dia.	E	galvanized iron		weight (approx.)
					head	base	
8"	15"	6"	18"	18"	26 ga.	24 ga.	80 lb.
10	17	7	19	18	26	24	90
12	21	9	23	20	26	24	115
18	27	14	32	20	24	22	160
20	29	15	34	24	22	22	190
24	33	18	42	30	22	20	275
30	39	21	53	30	20	18	370
36	45	25	63	30	20	18	450
42	51	34	71	30	18	18	550
48	61	36	82	36	18	18	740
54	67	44	92	36	18	16	920
60	73	52	103	36	18	16	1140

Where gravity exhaust is desired during periods when fan motor is not in operation, self-acting dampers should not be used.

The Hirschman Type "F" Electric ventilator, using propeller type of fan is designed to exhaust high volumes of free air, or at the lower static pressures. Due to a large selection of sizes and speeds of motors or fans, it has a wide range of capacities, limited only by the motor horse-power. It will also allow of high gravity exhausts during periods when the fan motor is not in operation.

It can be furnished with any type or size of base connection desired, with or without any type of damper for any type of control. For extreme heat conditions or where injurious fumes are to be exhausted, the motor can be isolated from the path of the exhausted air by our isolated motor section, either single or double shell.

Motors used are of standard manufacture designed for vertical operation, fully enclosed, ball-bearing, continuous duty. All units include a suitable size access door.

The capacities shown are not intended to cover the entire range, but are those that may be considered as standard in the most commonly used sizes. Data for any capacity not shown, will be gladly furnished on application.

### capacities

size A dia.	fan dia.	fan capacities					gravity capacities*				
		HP	RPM	tip speed	c. f. m—Inches of water				temperature difference**		
					free	1/8"	1/4"	3/8"	10°	20°	30°
8"	7"	1/40	1600	2930	280	150	—	—	—	—	—
10"	9"	1/40	1600	3770	540	320	190	—	—	—	—
12"	11"	1/20	1140	3280	850	650	300	—	—	—	—
	11"	1/20	1725	4968	1050	825	510	290	360	460	525
18"	16"	1/20	860	3600	1400	920	600	—	—	—	—
	16"	1/6	1140	5073	2400	2000	1500	900	717	950	1050
	16"	1/6	1725	7676	2800	2100	1400	800	—	—	—
20"	18"	1/4	1140	5369	3100	2600	2300	1500	980	1240	1360
	19"	1/3	1725	8580	3700	3300	2900	2300	—	—	—
24"	22"	1/4	860	4953	3800	3100	2400	1800	—	—	—
	22"	1/4	1140	6566	4600	3800	3000	2200	1400	1675	1800
	22"	1/2	1140	6566	5300	4500	3700	2600	—	—	—
	22"	3/4	1725	9936	6500	5400	4200	3300	—	—	—
30"	28"	1/2	680	4980	5400	4700	4000	2700	2200	2600	2800
	28"	1/2	1140	8356	7100	6200	5300	4200	—	—	—
	28"	1	1140	8356	8000	7200	6300	5200	—	—	—
36"	34"	1/2	680	6052	7400	6700	5200	3200	—	—	—
	34"	3/4	685	6097	9180	7890	6120	3600	3160	3700	3900
	34"	1	1140	10140	10000	8800	7600	6500	—	—	—
	34"	1 1/2	1140	10140	13100	11900	10500	7400	—	—	—
42"	40"	1	465	4868	11500	9800	8500	5600	4300	5000	5300
	40"	1 1/2	600	6282	14000	10800	9600	8100	—	—	—
	40"	2	1140	11935	21000	19000	17000	15400	—	—	—
48"	46"	1	365	4390	16000	11500	8800	6200	5390	6500	7000
	46"	1 1/2	450	5418	18000	16800	12200	9700	—	—	—
	46"	2	860	10354	21000	18500	15500	11000	—	—	—
54"	50"	1 1/2	365	4778	18000	16000	9600	7900	7200	8300	8800
	52"	2	465	6328	22400	17500	13000	9100	—	—	—
	52"	3	700	9527	30000	22000	14000	10000	—	—	—
60"	58"	2	440	5530	26000	20000	13000	9000	8000	9200	10000
	58"	5	520	7700	37000	29000	25000	16000	—	—	—

\* 10 m.p.h. wind velocity    \*\* inside and out

NOTE: Data for larger sizes or any desired capacity not shown, on application.

### specifications

The electric ventilators shall be of the sizes shown on the contract drawings and shall have square to round bases to fit roof curbs as shown. They shall be of the manufacturer's standard gauge of (galvanized steel) (aluminum) (copper), with dampers for (chain control) (electric control) (pneumatic control). Exhaust area between cones and storm-band shall be at least 60% greater than neck area. These ventilators shall exhaust capacity and at static pressure as shown (on drawings) (on schedule) with motor sizes, of drives and speeds also as shown. Motors shall be wound for—volts,—cycle,—phase, and shall be fully enclosed, ball-bearing, continuous duty. These units shall be the Type "F" Electric ventilator as manufactured by the Hirschman-Pohle Co., Inc., of LeRoy, N. Y., or approved equal.

### LeRoy Electric



LeRoy Electric exhaust or intake showing self-acting dampers.

This ventilator uses a redesigned propeller fan to give high efficiency with this type of cowl. It is a modification of our type "CAF" low profile electric ventilator shown on page 6 and can be furnished with or without our insulated double shell steel curb or, where a curb may be considered unnecessary, with a flat flange for flat or pitched roof. The cowl, which is hinged for access, permits a very low overall height. It is intended primarily, in the larger sizes, for industrial use for either exhaust or intake.

This new unit is subject to several variations depending on (1) required capacity, (2) type of fan drive, (3) type of damper, and (4) permitted sound level. The motor and fan assembly can be mounted in the square neck or directly under the cowl. This ventilator can be custom-built to meet the requirements of any job, but standard sizes are being established and are now in process of being tested for the certified rating label. Until certified ratings are available, capacities can be assumed to be approximately the same as shown by the rating table for type "F" on this page.

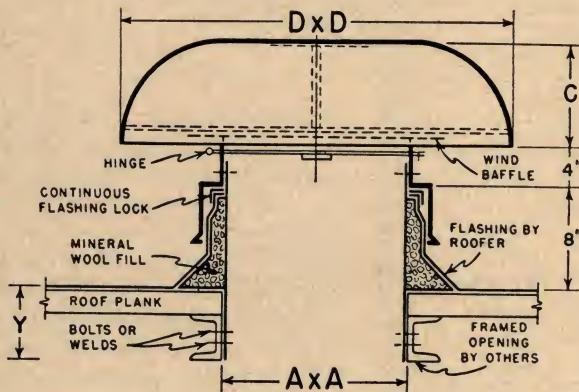
Additional information cheerfully furnished on request.

## square gravity

### type CA low profile

The Hirschman Type "CA" Low Profile ventilator is a companion unit to the Type "CAF" Electric ventilator described on page 6 and can be used as a gravity ventilator, or for pressure relief, or as an intake. Square sizes shown in the table are considered standard. Rectangular sizes are also available. This unit has been designed especially to reduce the overall height to a minimum, and is shown mounted on our double shell steel curb, but can be furnished as well for built-up curbs of wood or concrete. It can include dampers as may be required for either chain, electric or pneumatic control. Where dampers are being used, and where specified, we can furnish the cowl on hinges for access to the dampers.

As in the case of the Type "CAF," the "Y" dimension of the Type "AS" double shell steel curb can be furnished as required. For poured roof decks, the Type "AC" steel curb can be furnished, with permanent form of required depth.



### standard dimensions

roof opening AxA	C	DxD	Y	galvanized steel		weight (approx.)
				cowl	housing	
10"	5½"	23"	6"	24 ga.	24 ga.	80 lb.
12	6	26		24	24	95
15	7	31	or	22	22	110
18	8	36		22	22	130
20	9½	41	as	22	22	150
24	11	48	req'd	22	22	190
30	12	56		22	20	260
36	14	66		20	18	310
42	16	76		20	18	450
48	18	86		20	18	650
54	20	96		20	18	900

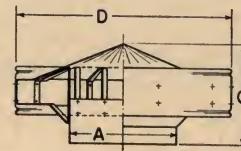
### specifications

Furnish and install where shown on drawings of the sizes shown, Type "CA" Low Profile gravity ventilators as manufactured by Hirschman-Pohle Co., Inc. of LeRoy, N. Y. or approved equal. They shall be constructed of the manufacturer's standard gauge of (galvanized steel) (copper) (other), and shall include Type ("AS" or "AC") insulated double shell steel curbs. Units shall include dampers for (chain) (electric) (pneumatic) control. If access to dampers is required, add: cowl shall be on hinges so that it can be opened for easy access to dampers.

## circular gravity

### firma

The "Firma" is an inexpensive Ventilator designed to give high exhaust efficiency at all wind velocities. Heavy gauges of metal are used. All steel bracing irons rust-proofed. All rivets have washers on burred side. Its automatic exhaust capacity is effective at a wind velocity of two miles per hour or more. For exhausting excessive heat, fumes, etc., "Firma" Ventilators have proven their worth. Installed on public buildings and industrial plants, etc., in most every state in the Union, and has the approval of all United States Departments, and of leading architects and engineers.



### standard dimensions

vent size A	C	D	galvanized metal		copper	
			cowl	neck	cowl	neck
12"	13"	21"	26 ga.	24 ga.	16 oz.	16 oz.
18	16	30	24	22	16	20
24	17	40	24	22	16	20
30	20	52	22	20	20	20
36	22	60	22	18	20	24
42	30	70	20	18	20	24
48	32	80	20	18	20	24
54	34	88	20	18	20	24
60	38	96	20	18	24	32
66	42	102	20	18	24	32
72	42	120	18	18	24	32

### capacities

vent size	cfm at various wind velocity a temp. diff.					
	5 mph wind velocity			10 mph wind velocity		
	10°F	20°F	30°F	10°F	20°F	30°F
12"	340	410	570	365	440	590
18	750	930	1280	825	985	1325
24	1300	1650	2275	1460	1740	2350
30	2050	2575	3550	2280	2725	3675
36	3000	3700	5100	3300	3925	5300
42	4050	5050	6975	4475	5350	7225
48	5300	6600	9100	5850	6950	9400
54	6700	8350	11500	7400	8850	11900
60	8300	10300	14250	9350	10950	14750
66	10000	12500	17200	11100	13200	17800
72	11900	14800	21000	13200	15700	21250

NOTE: These ratings based on a 50 ft. stack height.

### specifications

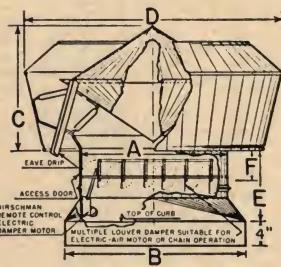
The roof ventilators of the sizes shown on the plans shall be of manufacturer's standard gauge of (Gal. . . Iron) (Copper). They shall be the Firma stationary Ventilators as manufactured by the Hirschman-Pohle Co., Inc., LeRoy, N. Y., and shall be mounted on (round) (square) style bases of same metal gauges as the necks of the ventilators.

## circular gravity

**type SE** with or w/o louvers  
**type LU** with louvers

S-E Ventilator, Syphon Exhaust—A very high grade stationary type syphon ventilator. It starts exhausting at slightly over a two-mile wind without any temperature difference.

L-U Louver Unit Ventilator—Consists of an S-E Ventilator Head constructed with a specially short base and neck and access door. In this neck is built a circular multiple blade louver damper. Both are in general appearance similar to the "F" Electric Cowl, but design is such as to give a greater syphonage exhaust capacity.



Type LU with base similar to type 12 (see page 11) and electric damper motor. Can be furnished in any type base specified.

### standard dimensions

vent size A dia.	type LU only		type SE only		types LU & SE				
	BxH	E	weight (approx.)	F	weight (approx.)	C	D	galvanized metal	copper
						head	base	head	base
12"	21"	12"	80 lb.	5"	30 lb.	9"	23"	24 ga.	24 ga.
18	27	12	110	5	50	14	32	24	16
24	33	12	150	6	75	15	34	24	20
30	39	18	175	6	110	18	42	22	20
36	45	18	200	6	150	21	53	22	24
42	51	18	260	8	200	25	63	20	18
48	61	20	300	8	270	34	71	20	20
54	67	24	360	10	300	36	82	18	18
60	73	24	420	12	350	44	92	18	16

### capacities

vent size A dia.	cfm at various wind velocity & temp. diff's.							
	5 mph wind speed				10 mph wind speed			
	0°F	10°F	20°F	30°F	0°F	10°F	20°F	30°F
12"	215	290	330	380	270	360	460	525
18	475	610	740	830	590	717	950	1050
24	850	1090	1315	1500	1035	1400	1675	1800
30	1320	1700	2060	2335	1625	2200	2600	2800
36	1980	2450	2970	3370	2350	3160	3700	3900
42	2585	3325	4025	4580	3200	4300	5000	5300
48	3375	4350	5260	5980	4150	5390	6500	7000
54	4275	5500	6650	7650	5250	7200	8300	8800
60	5250	6800	8220	9350	6500	8000	9200	10000

NOTE: These ratings based on only 15 ft. stack height.

### specifications

The roof ventilators shown on the drawings ..... shall be type (LU) (SE) as manufactured by the Hirschman-Pohle Co., Inc., of LeRoy, N. Y., or approved equal, with base type. ..... (see page 11) to fit curb as shown. Fully weatherproofed housing shall be of manufacturers standard gauge (galvanized steel) (copper) (aluminum) (other). Ventilators shall be of a size (of ..... inches diameter) (as shown on drawings).

Damper shall be circular multiple blade louver for (self acting gravity) (chain) (pneumatic) (electric) control.

## ridge

fifty years of service

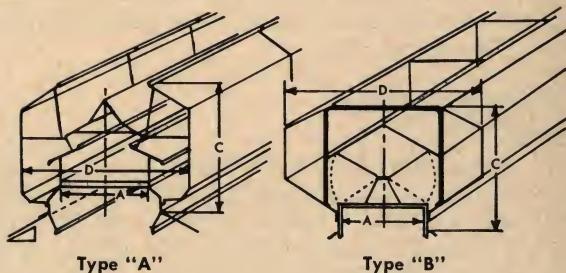


20c  
Hi

## Coolero

Either of the two types of the COOLER continuous ridge ventilator shown are absolutely weather-proof and designed to offer the least possible resistance to natural air movement due to temperature difference and stack effect, and to secure the greatest possible syphon action from wind blowing across the storm band. Either type provides a continuous opening its entire length and is available in 10' sections or parts thereof, to make up any total length desired. These units can be built of any metal available. Type "A" has primarily been designed for 24" throat opening and smaller, and Type "B" for the larger sizes, but for special application or where any preference is shown, either type can be built of any throat opening required.

Dampers of the several types can be furnished as an integral part of the ventilator for control by chain, worm gear operators, or electric damper control.



### standard dimensions and capacities

dim., in.	gauge				
	A	C	D	galv.	copper
4	10		11	24	16
6	12		14	24	16
9	16		21	24	16
12	20		28	22	16
18	31		40	22	20
24	36		54	20	20
30	50		70	20	20
36	54		82	20	24
42	60		98	18	24
48	74		110	18	24
54	82		120	18	32
60	98		138	16	32

### velocities\*

height of vent above floor	excess of temperature of air inside above that of external air								
	5°	10°	15°	20°	25°	30°	50°	100°	150°
10'	77	108	133	153	171	188	242	342	419
15'	94	133	162	188	210	230	297	419	514
20'	108	153	188	217	242	265	342	484	593
25'	121	171	210	242	271	297	383	541	663
30'	133	188	230	265	297	325	419	593	726
35'	143	203	248	286	320	351	453	640	784
40'	153	217	265	306	342	375	484	683	838
45'	162	230	282	325	363	398	514	723	889
50'	171	242	297	342	383	419	541	760	937
75'	208	295	360	418	468	514	662	936	1147
100'	240	341	418	490	540	593	766	1080	1325

\* This table gives the velocity of a rising column of air in a building in linear feet per minute due to temperature difference. This table does not take wind velocity assistance into consideration. Because its direction would vary the effect.

### specifications

The ridge roof ventilators shown on the drawings ..... shall be Coolero type (A) or (B) as manufactured by the Hirschman-Pohle Co., Inc., of LeRoy, N. Y., or approved equal. Fully weather-proofed housing shall be of manufacturers standard gauge (galvanized steel) (copper) (aluminum) (other). Ventilators shall have a throat opening size of ..... inches.

If dampers are required add: Dampers shall be an integral part of the unit, for (chain), (worm gear operator) or (electric) control.

**rotary**

## **EFFICO ball-bearing ventilators**

**wind driven**

The top of the fully weatherproof rotating cowl of the Effico is provided with a series of wind propelling blades, its under side with a greater number of suction blades, the entire assembly operating as a wind driven fan. The Effico shaft rotates on ball-bearings fitted with clock precision in solidly enclosed dust and oil-tight housing. Sizes smaller than 24" neck diameter are packed in a suitable grease and require no further attention; bearings in the 24" size and larger are flooded in inches of non-freezing oil (furnished by us) with provision for re-oiling at intervals of not greater than every five years. Where desired, special oil reservoirs can be furnished. The Effico is absolutely noiseless in operation and no drip pans or bird screens are necessary. The combination of careful design, perfectly made bearings, and wind fan principle, has resulted in high efficiency, pleasing appearance, and considerably lower height than the average rotary ventilator. (Note dimension chart.)

**Bases and Dampers**—The Effico ventilator can be furnished with any required type of base to fit your roof opening, and with single blade, butterfly, or circular louver dampers, for chain, electric or pneumatic control.

#### **internal louver unit**

**the Effico internal Louver Unit**—Comprises the Effico Rotary Ball-Bearing Ventilator head, already lower in height by 50% than most other rotary types of ventilator, constructed with a special short neck, and base.

In the neck is built a circular multiple blade Louver damper. The damper is carefully balanced and heavily constructed. The blades lap and are fitted in a circular frame. It is adaptable for manual, electric or pneumatic control.

Roof base is very low and is a part of unit, bringing entire unit as low to the roof as is permissible to still allow the air free exhausting, and to maintain the outlets above the snow line. It is supplied with either the square or round type base.

## **specifications**

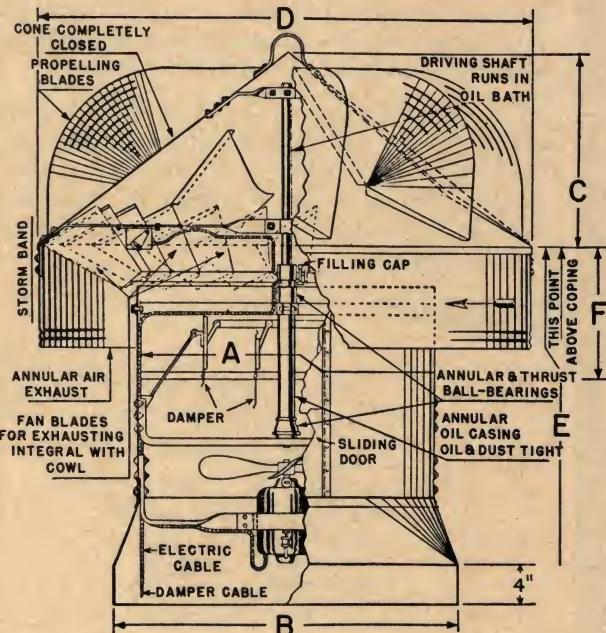
The roof ventilators of the sizes as shown on the plans shall be Rotary Ball Bearing Ventilators comprising fully enclosed conical cowl; the exterior of which is covered with wind propelling blades, the interior with suction blades. The bearings shall be fully ball bearing, oil flooded fully enclosed in oil and dust tight housing. The ventilators shall be mounted on necks and stacks sufficiently high so that the propelling blades shall be above coping, with transforming bases of same gauge as ventilator neck to fit square curbs as shown. Each ventilator shall include a tight-fitting damper for (chain) (electric) (pneumatic) control. The ventilators shall be of (Galvanized . . . Iron) (Copper) of the manufacturer's standard gauges.

They shall be the EFFICO Rotary Ball Bearing Ventilators as manufactured by the Hirschman-Pohle Co., Inc., Le Roy, N. Y.

**dimensions and capacities** of Effico rotary ball-bearing, Effico wind-electric and Effico luxox unit ventilators.

dimensions in inches these dimensions refer to all ventilators					gauge galva- nized		ounce copper		Wind-Electric ventilator			Effico Louver unit		capacities in c.f.m.							
A	B	C*	D dia.	F	cowl	neck and base	cowl	neck and base	motor H.P.	di- mens. E	net wgt.	mens. E	net** wgt.	wind velocity in miles per hour							
														5	10	5†	10	5	10	5	10
12	21	8	22	11	24	24	16	16	1/20	32	90	23	55	350	430	440	525	515	600	560	625
18	27	10	28½	11½	24	22	16	16		32	135	23	90	600	910	850	1050	950	1200	1040	1300
24	33	14	42	16	24	22	16	20		35	190	26	140	1020	1490	1600	1900	1780	2100	1900	2300
30	39	14	52	22	22	20	16	20		37	250	28	190	1560	2300	2300	3210	2690	3490	2900	3600
36	45	18	62	24	22	18	20	24	1/6	40	290	30	225	2300	3250	3400	4200	3810	4720	4100	5050
42	51	22	68	33	22	18	20	24		46	425	38	350	3150	4390	4500	5700	5010	6300	5500	6800
48	61	24	74	34	22	18	20	24		46	490	38	400	4000	5900	5900	7900	6700	8900	7400	9050
54	67	24	86	35	22	18	20	24		46	700	38	600	5100	7850	7300	9900	8450	11000	9500	11500
60	73	24	98	37	20	18	20	24	1/2	50	820	38	700	6500	9200	93500	12500	10600	14000	11900	14500
66	79	30	103½	43	20	18	20	32		50	900	44	800	9800	13000	13500	17000	14600	19000	16000	20000
72	85	30	114	50	20	18	20	32		50	990	44	880	12500	18000	18000	24000	21000	27000	23000	28000
84	97	40	130	54	18	16	24	32	1	50	1160	48	1050	16000	22800	22500	30000	27000	33500	29000	35500

### **wind-electric driven automatic**



This ventilator uses the EFFICO rotary ball-bearing ventilator head described above, with an auxiliary motor driven fan actuated by an automatic circuit-breaker controlled by the wind velocity. This automatic circuit-breaker, while adjustable, is usually set to break at a wind velocity of five miles per hour, so that with the wind above the setting the ventilator operates by wind alone, and when the wind velocity drops below that setting, the motor is automatically energized and the fan will continue to exhaust its rated capacity until the wind velocity again increases sufficiently to break the circuit. This ventilator is for 100% constant ventilation with a minimum of operating cost.

## **specifications**

The roof ventilators to exhaust from (....) shall be of the sizes and capacities as shown on plans and shall be automatic wind and electric driven Rotary Ball Bearing ventilators. Each ventilator shall contain the Hirschman Adjustable Wind Actuated Automatic Electric Circuit Breaker. The design of the ventilators shall be such that automatically the electric driven fan shall exhaust the specified volume of air when the wind driven section of ventilator is not exhausting the required specified volume of air. The electric motors utilized in these ventilators shall be of ... cycle .... phase .... volts, shall be fully enclosed, resilient mounted, constant duty, silent operating motors. Each ventilator shall contain a Circular Multiple Louver Damper (Dampers for these ventilators shall be operated by Electric Damper Control) (Pneumatic motors as specified under temperature regulation) (Chain) controlled from location as selected by the architect. These ventilators shall be of (Galvanized .... Iron) (Copper) of manufacturer's standard gauges. These ventilators shall be the EFFICO Full Automatic WIND-ELECTRIC Ventilators as manufactured by the Hirschman-Pohl Co., Inc., LeRoy, N. Y.

## NOTES

\* "C" dimensions should be above coping.

\*\* Net weight of standard EFFICO ventilators with bases and dampers approximately the same

approximately the same as shown of the EFFICO Internal Louver unit.

t Capacities in this column are constant capacities for Wind-Electric Ventilators from 0-5 mile per hour wind velocity, and 0-10 degrees temperature difference. Any increase in wind velocity or temperature difference will increase capacity accordingly.

## bases

### standard

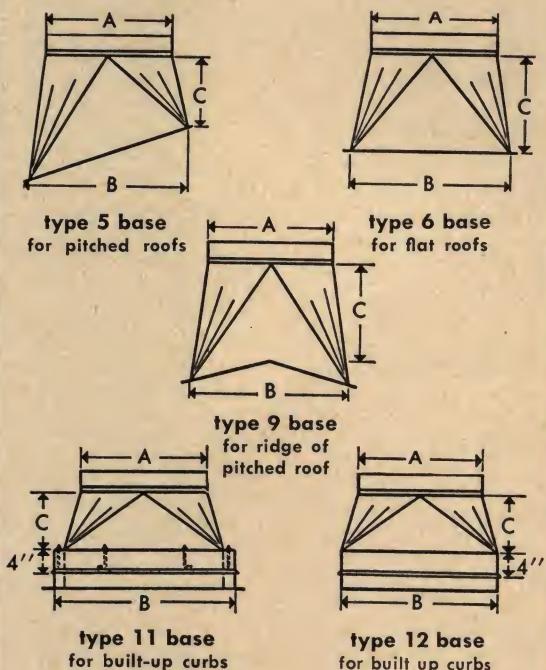
Bases of any type, shape or size, constructed of any metal can be furnished for any ventilator. All bases are constructed to support the ventilator and withstand wind and snow loads. Bases shown below are standard but bases for special conditions can be furnished.

Dimension C can be reduced when minimum height is a prime consideration.

Type 11 base would be used on our insulated double shell steel curb but can also be furnished for built up curbs.

### dimensions and gauges

A diam. of stack	B dimension for square bases	C	copper oz.	gauge galv. metal	shipping wgt. net wgt. approx. 40% less
12"	21x21"	12"	16"	24"	70
18	27x27	12	16	24	80
20	29x29	12	16	22	85
24	33x33	16	20	20	100
30	39x39	16	20	18	110
36	45x45	16	24	18	120
42	51x51	16	24	18	150
48	61x61	18	24	18	170
54	67x67	18	24	18	180
60	73x73	18	24	18	190
66	79x79	18	24	18	200
72	85x85	18	24	18	210
84	97x97	18	24	18	390
96	116x116	18	24	18	445



Base Types 5, 6 and 9 are flat flange mountings where roof curb is not desired. The standard "B" dimensions for Types 11 and 12 are primarily intended for use with concrete curbs with  $\frac{1}{2}$ " flashing and felt allowance all around. For use on our double shell steel curbs, the square bases would be correspondingly smaller. Bases with 5" flat flanges for flat or pitched roof could also be smaller. All round bases can be furnished where desired.

## curbs

fifty years of service

Hirschman-Pohle  
VENTILATORS  
SINCE 1904

20c  
Hi

### insulated

Hirschman Insulated Double Shell Steel ventilator curbs may be furnished for roof decks of poured concrete or gypsum, steel, or wood. For a poured deck the steel curb acts as a permanent form leaving a solid and nicely finished opening. For steel or wood decks the opening can be framed, or, depending on the location of structural members, the steel curb can act as its own framing.

The insulated double shell effectively prevents or reduces condensation, and the use of this curb assures the desirable 45 degree cant for flashing, plus the continuous flashing lock at the top to hold the flashing in place. Standard construction is 1" thick with special types available for skylights, scuttles, or other roof openings.

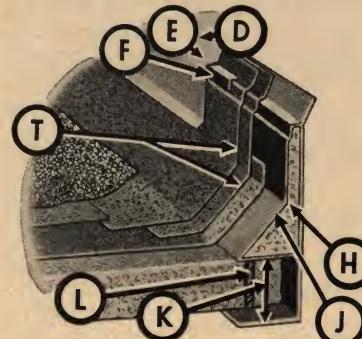
The Type "ASL" Insulated Double Shell Steel Curb carries the insulation down below the roof line, and has been designed in response to a demand from a number of architects using skylights over corridors of modern one-story school buildings. This type of construction serves the double purpose of greatly reducing the possibility of condensation troubles in the attic or hung ceiling space, and acting as a light well, whether or not ceiling lights are used. The interior surface can be furnished of aluminum, enameled steel, or other ornamental finishes. It is subject to a number of modifications to meet your requirements both in finish and dimensions.

### dimensions and gauges

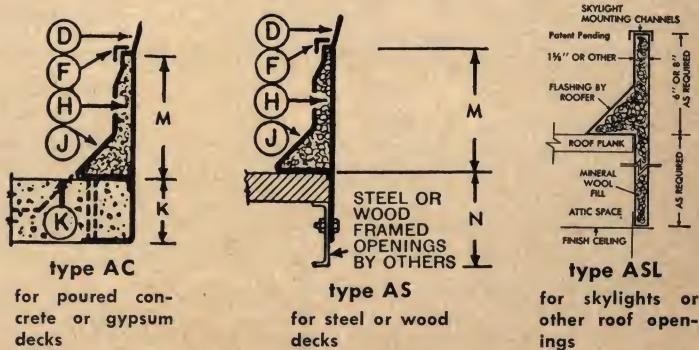
ventilator size, in.*	12	18	24	30	36	42	48	54	60	72	96
curb size actual, opening in.	16x 16	22x 22	30x 30	36x 36	42x 42	48x 48	54x 54	60x 60	66x 66	80x 80	116x 116
gauge steel outer shell	20	20	20	20	20	20	20	18	18	18	16
gauge steel inner shell	20	20	20	20	18	18	18	18	18	16	16

\* The ventilator sizes shown are neck diameters and are considered as standard for circular ventilator requiring the usual square to round base transformation, but any can be furnished for any shape or size desired for flat or pitched roofs.

For standard construction of the Type "LAC" Statick (including the damper housing) the roof opening for the steel curb would be 4" larger than the "A" dimension shown in the Statick table. For the Type "LC" the roof opening would be 3" smaller than the standard "B" dimension shown.



- D—Continuous flange for securing ventilator to curb.
- E—Shoulder of ventilator base to fit over flashing lock F.
- F—Continuous flashing lock.
- H—Mineral wool insulation.
- J—45° cant strip integral part of curb.
- K—The permanent form of the steel curb can be furnished as required for the thickness of the poured roof.
- L—Reinforcing rod for type AC curbs.
- M—Standard height above the roof 8" which can be varied as desired.
- N—Standard for continuous lower flange, which can be varied as desired, is 6".
- T—Flashing or roofing felt.





## a ventilator for every purpose

### custom built ventilators

Every ventilator made by Hirschman-Pohle is assembled and tested with the care and precision normally required for custom built units. Therefore, any of the ventilator designs shown in the preceding pages of this catalog can be modified or adapted to meet special job conditions or requirements at little or no extra cost. In addition Hirschman-Pohle engineers and designers will be happy to work with any architect or engineer to

develop special designs for unusual requirements or job conditions.

After a pilot model of a special design has been constructed, it can be tested for performance in our new laboratory, and cost estimated in our estimating department to determine if it is feasible.

Hirschman-Pohle facilities and equipment are at your service.

### engineering service

We do not intend to intrude on the practice of your local engineer by making entire ventilation layouts but we do have engineering representatives in all major cities who are at your service

for suggestions in connection with the use of any of our types of roof ventilators. These are supplemented by our engineers at our plant in LeRoy, N.Y.

### sales representatives

#### ALABAMA, Birmingham (6)

Brownless—Morrow Engineering Co., P. O. Box 3081  
Birmingham 9-6648

#### COLORADO, Denver (11)

Air Purification Co., 2405 West 32nd Ave.  
Genesee 2537

#### CONNECTICUT, Hartford

Thomas A. Fox, P.O. Box 72, Station A  
Chapel 7-3448

#### FLORIDA, Orlando

G. R. Macnamara, 216 Church & Main Bldg.  
2-3422

#### IOWA, Des Moines (9)

Wells Sales Co., Home Federal Building  
Des Moines 8-5739

#### KENTUCKY, Fort Thomas (Cincinnati)

Stanley M. Rankin, 58 Broadview Place  
Highland 1-2823

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Richard B. Gedlert, 840 Dodge Ave.  
Forest 6-4825

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Edward H. Lloyd & Son Inc., 131 State St.  
Hubbard 2-1216

#### MINNESOTA, Minneapolis (1)

Larry H. Bakken, 642 Lumber Exchange Bldg.  
Federal 8-5000

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Sterling 1-3211

#### NEBRASKA, Omaha

Wain Engineering Co., 523 Omaha Building and Loan  
Building  
Webster 1559

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W. M. Jenkins, 176 Winthrop Ave.  
Albany 2-9943

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Lewis Reid, Sims Lane  
Oldfield 5-3013

#### NEW YORK, New York (17)

Ted Messer, 370 Lexington Ave.  
Murray Hill 3-9557

#### NEW YORK, Rochester (18)

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Hillside 5-1900

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L. R. Gorrell & Co., P. O. Box 5742  
Temple 3-9090

#### NORTH CAROLINA, Charlotte

L. R. Gorrell & Co., P. O. Box 11151  
Edison 4-3887

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Therm-Ohio, 18609 St. Clair Ave.  
Ivanhoe 6-2550

#### OHIO, Columbus (14)

Keatts Thermal Equipment Co., 3851 No. High St.  
Amherst 3-9980

#### OREGON, Portland (14)

Henry Julum & Assoc., 56 S. E. Belmont St.  
Belmont 2-4050

#### PENNSYLVANIA, Abington (Philadelphia)

R. B. Sweet & Asso., P. O. Box 123

#### PENNSYLVANIA, Camp Hill

M. R. & D. C. Lederer, P. O. Box 16  
Regent 7-9384

#### PENNSYLVANIA, Pittsburgh (27)

Frank W. Hoyt, Jr., 20 Stewart Ave.  
Tuxedo 2-2975

#### TENNESSEE, Knoxville

Tri-State Sales & Equipt. Co., P. O. Box 774  
5-4376

#### TEXAS, DALLAS (1)

Allan Engrg. Co., P. O. Box 1211  
Dixon 1588

#### TEXAS, Ft. Worth

L. U. Nicastro Co., 3590 McCart St.

#### TEXAS, Houston (2)

McMillan Equipment Co., 501 M. & M. Bldg.  
Capitol 5-0561

#### VIRGINIA, Falls Church (Washington)

Chas. W. Campbell, P. O. Box 155

#### CANADA—NOVA SCOTIA, Halifax

Consolidated Supply Co., Ltd.

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### HIRSCHMAN-POHLE CO., Inc.

GENERAL OFFICES AND PLANT—Le Roy, N.Y.

BRANCH OFFICE—P.O. BOX 25, LACKAWANNA 18, N.Y., Triangle 7740

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